

SEQUENCE LISTING

<110> E. I. du Pont de Nemours and Company

<120> Chromatin Associated Proteins

<130> BB-1118-A

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<150> 60/092,841
<151> July 14, 1998

<160> 8

<170> Microsoft Office 97

<210> 1

<211> 1990

<212> DNA

<213> Oryza sativa

<400> 1

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<210> 2
<211> 493
<212> PRT
<213> Oryza sativa

<400> 2
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Pro Met Lys Pro His Arg Ile Arg Met Thr His Ala Leu Leu Ala His
20 25 30
Tyr Gly Leu Leu Asp Gln Met Gln Val Leu Lys Pro His Pro Ala Arg
35 40 45
Asp Arg Asp Leu Cys Arg Phe His Ala Asp Asp Tyr Val Ala Phe Leu
50 55 60
Arg Ser Val Thr Pro Glu Thr Gln Gln Asp Gln Ile Arg Ala Leu Lys
65 70 75 80
Arg Phe Asn Val Gly Glu Asp Cys Pro Val Phe Asp Gly Leu Tyr Ser
85 90 95
Phe Cys Gln Thr Tyr Ala Gly Gly Ser Val Gly Gly Ala Val Lys Leu
100 105 110
Asn His Gly His Asp Ile Ala Ile Asn Trp Ala Gly Gly Leu His His
115 120 125
Ala Lys Lys Cys Glu Ala Ser Gly Phe Cys Tyr Val Asn Asp Ile Val
130 135 140
Leu Ala Ile Leu Glu Leu Leu Lys Tyr His Gln Arg Val Leu Tyr Val
145 150 155 160
Asp Ile Asp Ile His His Gly Asp Gly Val Glu Glu Ala Phe Tyr Thr
165 170 175
Thr Asp Arg Val Met Thr Val Ser Phe His Lys Phe Gly Asp Tyr Phe
180 185 190
Pro Gly Thr Gly Asp Ile Arg Asp Ile Gly His Ser Lys Gly Lys Tyr
195 200 205
Tyr Ser Leu Asn Val Pro Leu Asp Asp Gly Ile Asp Asp Glu Ser Tyr
210 215 220
Gln Ser Leu Phe Lys Pro Ile Met Gly Lys Val Met Glu Val Phe Arg
225 230 235 240
Pro Gly Ala Val Val Leu Gln Cys Gly Ala Asp Ser Leu Ser Gly Asp
245 250 255
Arg Leu Gly Cys Phe Asn Leu Ser Ile Arg Gly His Ala Glu Cys Val
260 265 270
Arg Phe Met Arg Ser Phe Asn Val Pro Leu Leu Leu Gly Gly Gly
275 280 285

Gly Tyr Thr Ile Arg Asn Val Ala Arg Cys Trp Cys Tyr Glu Thr Gly
290 295 300

Val Ala Leu Gly His Glu Leu Thr Asp Lys Met Pro Pro Asn Glu Tyr
305 310 315 320

Phe Glu Tyr Phe Gly Pro Asp Tyr Thr Leu His Val Ala Pro Ser Asn
 325 330 335

Met Glu Asn Lys Asn Thr Arg Gln Gln Leu Asp Asp Ile Arg Ser Arg
340 345 350

Leu Leu Asp Asn Leu Ser Lys Leu Arg His Ala Pro Ser Val Gln Phe
355 360 365

Gln Glu Arg Pro Pro Glu Ala Glu Leu Pro Glu Gln Asp Glu Asp Gln
370 375 380

Glu Asp Pro Asp Glu Arg His His Ala Asp Ser Asp Val Glu Met Asp
385 390 395 400

Asp Val Lys Pro Leu Asp Asp Ser Gly Arg Arg Ser Ser Ile Gln Asn
405 410 415

Val Arg Val Lys Arg Glu Ser Ala Glu Thr Asp Ala Ala Asp Gln Asp
420 425 430

Gly Asn Arg Val Ala Ala Glu Asn Thr Lys Gly Thr Glu Pro Ala Ala
435 440 445

Asp Gly Val Gly Ser Ser Lys Gln Thr Val Pro Thr Asp Ala Ser Ala
450 455 460

Met Ala Ile Asp Glu Pro Gly Ser Leu Lys Val Glu Pro Asp Asn Ser
465 470 475 480

Asn Lys Leu Gln Asp Gln Pro Ser Val His Gln Lys Thr
485 490

<210> 3
<211> 1805
<212> DNA
<213> Glycine max

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 cggtgttgggt gtttcgagac tagcgttgc cttgggattt aactagatga taagatgcct 1140
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 atggaaaaca agaactcccg acaattattt gatgaaataa gagcaaaaact tcttgataat 1260
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 aaagaggagc aggataattt aaaagagctt tctgatcaca gccaagatg aagcaataat 1560
 aagcattact gatcaacccctt ctccttgact agtgtctgtc gacctgtaaa ttatagttcc 1620
 ctccctaaagc agtctggcat gcatttcatct gacgtctgtt gtgtttcaaa tttttgcttt 1680
 atctggaaac tgaagagata tggtgcaagc ttgccttggc ttttgatgtt tcataattact 1740
 gcaagatgaa tggtagtagtt atttttctg taaaaaaaaaaaaaaa 1800
 aaaaaa 1805

<210> 4
 <211> 473
 <212> PRT
 <213> Glycine max

<400> 4

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Arg Lys Val Ser Tyr Phe Tyr Asp Pro Glu Val Gly Asn Tyr Tyr Tyr
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Gly Gln Gly His Pro Met Lys Pro His Arg Ile Arg Met Thr His Ala
 35 40 45

Leu Leu Ala His Tyr Gly Leu Leu Gln His Met Gln Val Leu Lys Pro
 50 55 60

Met Ala Ala Lys Asp Arg Asp Leu Cys Lys Phe His Ala Asp Asp Tyr
 65 70 75 80

Val Ala Phe Leu Arg Gly Ile Thr Pro Glu Thr Gln Gln Asp Gln Leu
 85 90 95

Arg Gln Leu Lys Arg Phe Asn Val Gly Glu Asp Cys Pro Val Phe Asp
 100 105 110

Gly Leu Tyr Ser Phe Cys Gln Thr Tyr Ala Gly Gly Ser Val Gly Gly
 115 120 125

Ala Leu Lys Leu Asn His Gly Val Cys Asp Ile Ala Ile Asn Trp Ala
 130 135 140

Gly Gly Leu His His Ala Lys Lys Cys Glu Ala Ser Gly Phe Cys Tyr
 145 150 155 160

Val Asn Asp Ile Val Leu Ala Ile Leu Glu Leu Leu Lys Ile His Glu
 165 170 175

Arg Val Leu Tyr Val Asp Ile Asp Ile His His Gly Asp Gly Val Glu
 180 185 190

Glu Ala Phe Tyr Thr Thr Asp Arg Val Met Thr Val Ser Phe His Lys
 195 200 205

Phe Gly Asp Tyr Phe Pro Gly Thr Gly Asp Ile Arg Asp Ile Gly Tyr
 210 215 220

Ala Lys Gly Lys Tyr Tyr Ser Leu Asn Val Pro Leu Asp Asp Gly Ile
 225 230 235 240

Asp Asp Glu Ser Tyr Gln Ser Leu Phe Lys Pro Ile Met Gly Lys Val
 245 250 255

Met Glu Ile Phe Arg Pro Gly Ala Val Val Leu Gln Cys Gly Ala Asp
 260 265 270

Ser Leu Ser Gly Asp Arg Leu Gly Cys Phe Asn Leu Ser Ile Lys Gly
 275 280 285

His Ala Glu Cys Val Arg Tyr Met Arg Ser Phe Asn Val Pro Leu Leu
 290 295 300

Leu Leu Gly Gly Gly Tyr Thr Ile Arg Asn Val Ala Arg Cys Trp
 305 310 315 320

Cys Phe Glu Thr Ser Val Ala Leu Gly Ile Glu Leu Asp Asp Lys Met
 325 330 335

Pro Gln His Glu Tyr Tyr Glu Tyr Phe Gly Pro Asp Tyr Thr Leu His
 340 345 350

Val Ala Pro Ser Asn Met Glu Asn Lys Asn Ser Arg Gln Leu Leu Asp
 355 360 365

Glu Ile Arg Ala Lys Leu Leu Asp Asn Leu Ser Arg Leu Gln His Ala
 370 375 380

Pro Ser Val Pro Phe Gln Glu Arg Pro Pro Asp Ala Glu Leu Leu Glu
 385 390 395 400

Arg Asp Glu Asp Gln Asp Asp Arg Asp Glu Arg Trp Asp Pro Asp Ser
 405 410 415

Asp Arg Glu Val Gly Asp Asp Ser Asn Pro Val Arg Arg Arg Val Lys
 420 425 430

Ser Glu Cys Val Asp Ala Glu Asp Lys Asp Thr Val Ser Gly Val Asp
 435 440 445

Ser Met Ala Val Asp Glu Pro Cys Ile Lys Glu Glu Gln Asp Asn Leu
 450 455 460

Lys Glu Leu Ser Asp His Arg Pro Arg
 465 470

<210> 5
 <211> 541
 <212> DNA
 <213> Triticum aestivum

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<221> unsure
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cgggcagaag cggngcgtgt gctacttcta cgactcgag gtgggcaact actactacgg 180
gcagggccac ccgatgaagc cgacccgcat ccgcattgacc cactcgctgc tggcgcaagta 240
cggcctcctc gaccagatgc aggtgctgctg gcccaacccc gcccgcgacc gcgacctctg 300
ccgcttccac gcccgcgact acatctcctt cctccgcctcc gtcacgcggc agacgcaaca 360
agaccaaatt cggggccctca aagcgcntca acgtcggtga agaatggccc gtccttnaag 420
ggctccaaaa gcntctggca aacctaaccg ggggggcctcc gttngggggg gcgtnaaant 480
caaacaaaagg cttgncaacg ccatnaantg gtccgggggg gcttgaacac acttaaaaat 540
t 541

<210> 6
<211> 120
<212> PRT
<213> Triticum aestivum

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<222> (24)

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<222> (108)

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<221> UNSURE
<222> (118)

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Gly Pro Asp Gly Gln Lys Arg Xaa Val Cys Tyr Phe Tyr Asp Ser Glu
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Val Gly Asn Tyr Tyr Gly Gln Gly His Pro Met Lys Pro His Arg
35 40 45

Ile Arg Met Thr His Ser Leu Leu Ala Gln Tyr Gly Leu Leu Asp Gln
50 55 60

Met Gln Val Leu Arg Pro Asn Pro Ala Arg Asp Arg Asp Leu Cys Arg
65 70 75 80

Phe His Ala Asp Asp Tyr Ile Ser Phe Leu Arg Ser Val Thr Pro Glu
85 90 95

Thr Gln Gln Asp Gln Ile Arg Gly Leu Lys Arg Xaa Asn Val Gly Glu
100 105 110

Glu Trp Pro Val Leu Xaa Gly Leu
115 120

<210> 7
<211> 513
<212> PRT
<213> Zea mays

<400> 7
Met Asp Pro Ser Ser Ala Gly Ser Gly Gly Asn Ser Leu Pro Ser Val
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Gly Pro Asp Gly Gln Lys Arg Arg Val Cys Tyr Phe Tyr Asp Pro Asp
20 25 30

Val Gly Asn Tyr Tyr Gly Gln Gly His Pro Met Lys Pro His Arg
35 40 45

Ile Arg Met Thr His Ser Leu Leu Ala Arg Tyr Gly Leu Leu Asn Gln
50 55 60

Met Gln Val Tyr Arg Pro Asn Pro Ala Arg Glu Arg Glu Leu Cys Arg
65 70 75 80

Phe His Ala Glu Glu Tyr Ile Asn Phe Leu Arg Ser Val Thr Pro Glu
85 90 95

Thr Gln Gln Asp Gln Ile Arg Leu Leu Lys Arg Phe Asn Val Gly Glu
100 105 110

Glu Cys Pro Val Leu Asp Gly Leu Tyr Ser Phe Cys Gln Thr Tyr Ala
115 120 125

Gly Ala Ser Val Gly Gly Ala Val Lys Phe Asn His Gly His Asp Ile
130 135 140

Ala Ile Asn Trp Ser Gly Gly Leu His His Ala Lys Lys Cys Glu Ala
145 150 155 160

Ser Gly Phe Cys Tyr Val Asn Asp Ile Val Leu Ala Ile Leu Glu Leu
165 170 175

Leu Lys His His Glu Arg Val Leu Tyr Val Asp Ile Asp Ile His His
180 185 190

Gly Asp Gly Val Glu Glu Ala Phe Tyr Thr Asp Arg Val Met Thr
195 200 205

Val Ser Phe His Lys Phe Gly Asp Tyr Phe Pro Gly Thr Gly Asp Ile
210 215 220

Arg Asp Ile Gly His Ser Lys Gly Lys Tyr Tyr Ser Leu Asn Val Pro
225 230 235 240

Leu Asp Asp Gly Ile Asp Asp Glu Ser Tyr Gln Ser Leu Phe Lys Pro
245 250 255

Ile Met Gly Lys Val Met Glu Val Phe Arg Pro Gly Ala Val Val Leu
260 265 270

Gln Cys Gly Ala Asp Ser Leu Ser Gly Asp Arg Leu Gly Cys Phe Asn
275 280 285

Leu Ser Ile Lys Gly His Ala Glu Cys Val Arg Tyr Met Arg Ser Phe
290 295 300

Asn Val Pro Leu Leu Leu Gly Gly Gly Tyr Thr Ile Arg Asn
305 310 315 320

Val Ala Arg Cys Trp Cys Tyr Glu Thr Gly Val Ala Leu Gly Gln Glu
325 330 335

Pro Glu Asp Lys Met Pro Val Asn Glu Tyr Tyr Glu Tyr Phe Gly Pro
340 345 350

Asp Tyr Thr Leu His Val Ala Pro Ser Asn Met Glu Asn Lys Asn Thr
355 360 365

Arg Gln Gln Leu Asp Asp Ile Arg Ser Lys Leu Ser Lys Leu Arg His
370 375 380

Ala Pro Ser Val His Phe Gln Glu Arg Val Pro Asp Thr Glu Ile Pro
385 390 395 400

Glu Gln Asp Glu Asp Gln Asp Asp Pro Asp Glu Arg His Asp Pro Asp
405 410 415

Ser Asp Met Glu Val Asp Asp His Lys Ala Val Glu Glu Ser Ser Arg
420 425 430

Arg Ser Ile Leu Gly Ile Lys Ile Lys Arg Glu Phe Gly Glu Asn Ala
 435 440 445

Thr Arg Val Gln Asp Gly Gly Arg Val Ala Ser Glu His Arg Gly Leu
 450 455 460

Glu Pro Met Ala Glu Asp Ile Gly Ser Ser Lys Gln Ala Pro Gln Ala
 465 470 475 480

Asp Ala Ser Ala Met Ala Ile Asp Glu Pro Ser Asn Val Lys Asn Glu
 485 490 495

Pro Glu Ser Ser Thr Lys Leu Gln Gly Gln Ala Ala Ala Tyr His Lys
 500 505 510

Pro

<210> 8

<211> 501

<212> PRT

<213> Arabidopsis thaliana

<400> 8

Met Asp Thr Gly Gly Asn Ser Leu Ala Ser Gly Pro Asp Gly Val Lys
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Arg Lys Val Cys Tyr Phe Tyr Asp Pro Glu Val Gly Asn Tyr Tyr Tyr
 20 25 30

Gly Gln Gly His Pro Met Lys Pro His Arg Ile Arg Met Thr His Ala
 35 40 45

Leu Leu Ala His Tyr Gly Leu Leu Gln His Met Gln Val Leu Lys Pro
 50 55 60

Phe Pro Ala Arg Asp Arg Asp Leu Cys Arg Phe His Ala Asp Asp Tyr
 65 70 75 80

Val Ser Phe Leu Arg Ser Ile Thr Pro Glu Thr Gln Gln Asp Gln Ile
 85 90 95

Arg Gln Leu Lys Arg Phe Asn Val Gly Glu Asp Cys Pro Val Phe Asp
 100 105 110

Gly Leu Tyr Ser Phe Cys Gln Thr Tyr Ala Gly Gly Ser Val Gly Gly
 115 120 125

Ser Val Lys Leu Asn His Gly Leu Cys Asp Ile Ala Ile Asn Trp Ala
 130 135 140

Gly Gly Leu His His Ala Lys Lys Cys Glu Ala Ser Gly Phe Cys Tyr
 145 150 155 160

Val Asn Asp Ile Val Leu Ala Ile Leu Glu Leu Leu Lys Gln His Glu
 165 170 175

Arg Val Leu Tyr Val Asp Ile Asp Ile His His Gly Asp Gly Val Glu
 180 185 190

Glu Ala Phe Tyr Ala Thr Asp Arg Val Met Thr Val Ser Phe His Lys
195 200 205

Phe Gly Asp Tyr Phe Pro Gly Thr Gly His Ile Gln Asp Ile Gly Tyr
210 215 220

Gly Ser Gly Lys Tyr Tyr Ser Leu Asn Val Pro Leu Asp Asp Gly Ile
225 230 235 240

Asp Asp Glu Ser Tyr His Leu Leu Phe Lys Pro Ile Met Gly Lys Val
245 250 255

Met Glu Ile Phe Arg Pro Gly Ala Val Val Leu Gln Cys Gly Ala Asp
260 265 270

Ser Leu Ser Gly Asp Arg Leu Gly Cys Phe Asn Leu Ser Ile Lys Gly
275 280 285

His Ala Glu Cys Val Lys Phe Met Arg Ser Phe Asn Val Pro Leu Leu
290 295 300

Leu Leu Gly Gly Gly Tyr Thr Ile Arg Asn Val Ala Arg Cys Trp
305 310 315 320

Cys Tyr Glu Thr Gly Val Ala Leu Gly Val Glu Val Glu Asp Lys Met
325 330 335

Pro Glu His Glu Tyr Tyr Glu Tyr Phe Gly Pro Asp Tyr Thr Leu His
340 345 350

Val Ala Pro Ser Asn Met Glu Asn Lys Asn Ser Arg Gln Met Leu Glu
355 360 365

Glu Ile Arg Asn Asp Leu Leu His Asn Leu Ser Lys Leu Gln His Ala
370 375 380

Pro Ser Val Pro Phe Gln Glu Arg Pro Pro Asp Thr Glu Thr Pro Glu
385 390 395 400

Val Asp Glu Asp Gln Glu Asp Gly Asp Lys Arg Trp Asp Pro Asp Ser
405 410 415

Asp Met Asp Val Asp Asp Arg Lys Pro Ile Pro Ser Arg Val Lys
420 425 430

Arg Glu Ala Val Glu Pro Asp Thr Lys Asp Lys Asp Gly Leu Lys Gly
435 440 445

Ile Met Glu Arg Gly Lys Gly Cys Glu Val Glu Val Asp Glu Ser Gly
450 455 460

Ser Thr Lys Val Thr Gly Val Asn Pro Val Gly Val Glu Glu Ala Ser
465 470 475 480

Val Lys Met Glu Glu Glu Gly Thr Asn Lys Gly Gly Ala Glu Gln Ala
485 490 495

Phe Pro Pro Lys Thr
500